

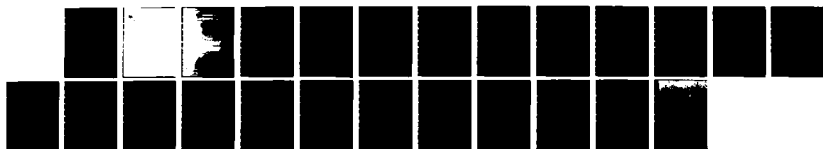
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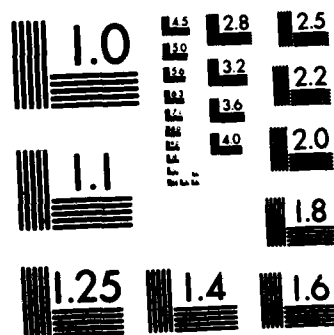
14818A LANCE MISSILE NUMBER 4586 ROUND NUMBER 392-APL
28 SEPTEMBER 1983(U) ARMY ELECTRONICS RESEARCH AND
DEVELOPMENT COMMAND WSMR NM ATM. D C KELLER 28 SEP 83
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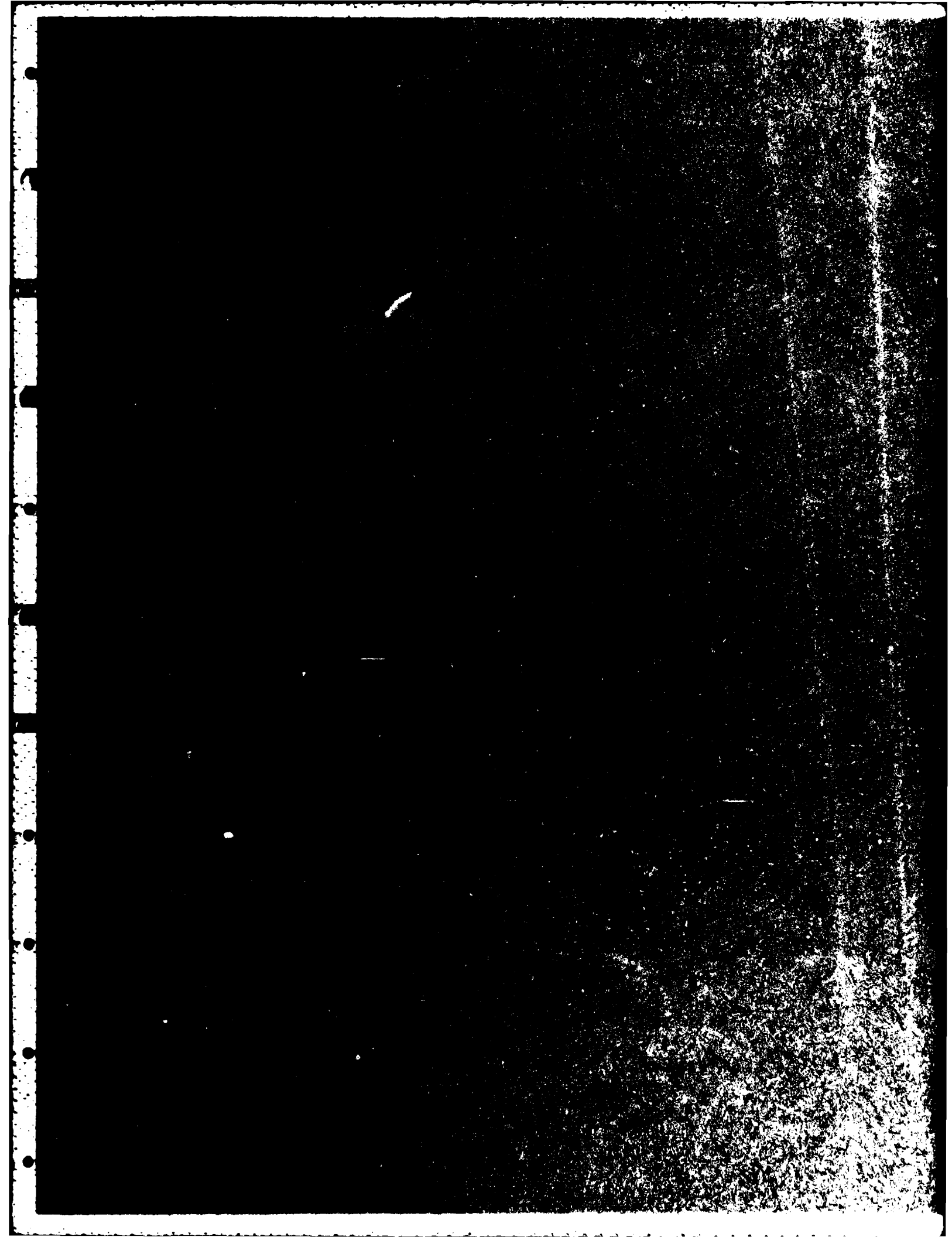
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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A



UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

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17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report) Approved for public release; distribution unlimited.		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of the 14818A LANCE, Missile Number 4586, Round Number 392-APL, are presented in tabular form.		

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INTRODUCTION

14818A Lance, Missile Number 4586, Round Number 392-APL, was launched from LC-39, White Sands Missile Range (WSMR), New Mexico, at 1544:22 MDT 28 September 1982. The scheduled launch time was 1600 MDT.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3), wind direction and speed, and cloud cover were made at the LC-39 Met Site at T-0 minutes.

(2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from RAPTS T-9 pibal observation at:

SITE AND ALTITUDE

LC-36 2760 meters

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to high as possible feet in 500-foot increments.

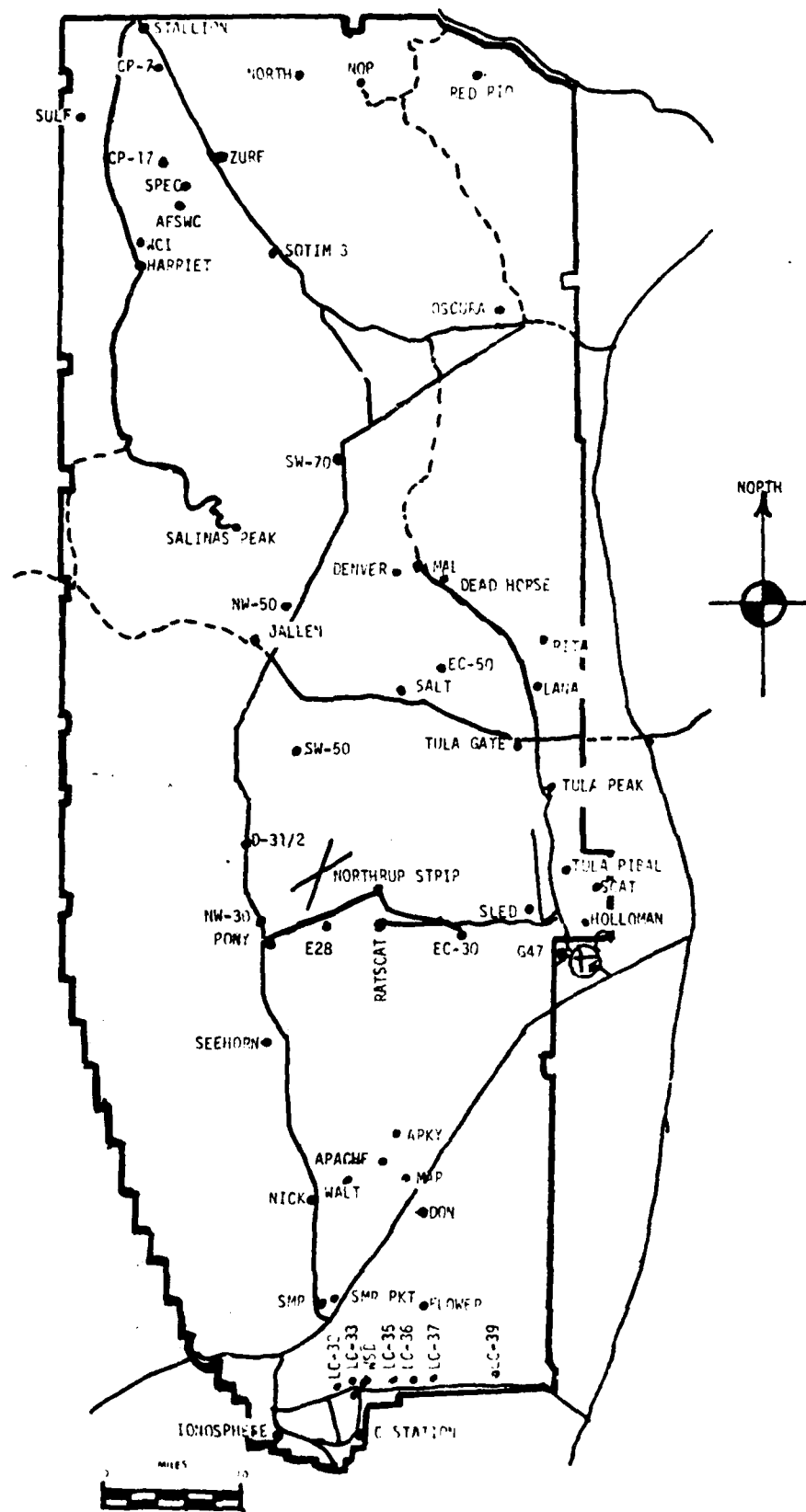
SITE AND TIME

WSD 1544 MDT
SMR 1544 MDT



A-1

WSMR METEOROLOGICAL SITES



PROJECT SURFACE OBSERVATION

TABLE 1 STATION LC-39

DATE 28 SEP 83 X= 530,938.82 Y= 186,564.96 H= 4063.75
DAY MONTH YEAR

TIME M D T	PRESSURE mbs	TEMPERATURE OF °C	DEW POINT OF °C	RELATIVE HUMIDITY %	DENSITY gm/m ³	WIND			VISIBIL- ITY
						DIRECTION degs	IN	SPEED kts	CHARACTER kts
1544	877.5	22.1	14.0	60		250		20	G30

OBSTRUCTIONS TO VISIBILITY	CLOUDS							REMARKS		
	1st LAYER		2nd LAYER		3rd LAYER					
	AMT	TYPE	HGT	AMT	TYPE	HGT	AMT		TYPE	HGT
	4	CU	6,500	4	AS	15,000	1	CI	27,000	TCU N THRU S. T W THRU NW
										MOVG N OCNL LTGGG W THRU N

PSYCHROMETRIC COMPUTATION

TIME:	1544
DRY BULB TEMP.	22.1
WET BULB TEMP.	16.8
WET BULB DEPR.	5.3
DEW POINT	14.0
RELATIVE HUMID.	60

WINDS ALOFT DATA

TABLE NUMBER 2

RELEASED FROM LC-36 DATE 28 Sep 83 TIME 1606 PST NOT X

UTM COORDINATES: X= 504,466.00 Y= 190,732.16 H= 4037.21

METHOD OF DATA COLLECTION: S/T _____ D/T _____ T-9 X PAGE _____

HEIGHTS: METERS AGL X FEET AGL METERS MSL FEET MSL

HEIGHT	DIP/SECTION DEGREES	SPEED KTS
SFC	280	16
60	289	17
120	297	17
180	302	21
240	307	25
300	301	26
360	300	28
420	288	29
480	285	27
540	285	25
600	283	25
660	287	18
720	280	19
780	296	14
840	304	12
900	299	11
960	314	08
1020	303	05
1080	309	05
1140	294	04
1200	295	05
1260	282	05
1320	245	05
1380	243	03
1440	236	04
1500	219	05
1560	232	05
1620	236	04

[illegible][illegible]

T-TIME COMPUTER MET MESSAGE DATA

28 September 1983

WSD 1544 MDT
METCM1324064
282170122879

00498020 29830879
01511024 29540869
02548026 29400844
03520016 29260806
04408004 28900760
05396006 28500716
06399009 28100674
07347009 27730634
08387008 27370596
09308011 27030560
10361021 26730526
11389028 26440493
12384034 25880447
13399029 25220391
14422024 24600341
15410027 23780297
16414046 22920256
17422046 22100220
18441051 21400189
19434056 21060161
20419034 20620137
21377029 20270116
22378023 20230098
23367020 20760083
24409009 21120070
25437010 21520060
26447005 21670051

SMR 1544 MDT
METCM1325064
282170122879

00596016 29800879
01543029 29430869
02516030 29320844
03508018 29130806
04182004 28800760
05220004 28450716
06291007 28030674
07291008 27670634
08316013 27300596
09346022 26960559
10384028 26660525
11392034 26390492
12400036 25950446
13429016 25340391
14408016 24580341
15412029 23710296
16420040 22910256
17427045 22060220
18444057 21330188
19436056 21000160
20412039 20510136
21385033 20290115
22360020 20310097
23377019 20640083
24440011 21150070
25437011 21410060
26414001 21590051

STATION ALTITUDE 3989.00 FEET MSL
28 SEP. 83
ASCENSION NO. 463

SIGNIFICANT LEVEL DATA
2710020465
WHIRL SAHADS

GEODLTIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 4

PRESSURE	GEOMETRIC ALTITUDE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT
879.3	3989.0	22.5	15.4
870.9	4262.6	19.5	14.3
850.0	4750.3	18.9	12.4
845.4	5103.7	18.9	12.2
838.3	5342.3	19.1	12.4
805.0	6486.8	17.9	11.0
771.4	7682.0	15.0	9.8
756.0	8243.4	14.0	9.0
746.2	8605.3	12.8	9.8
736.4	8970.8	12.0	9.2
707.6	10060.9	9.6	5.6
700.0	10361.8	8.9	5.1
633.8	13041.4	3.0	-1.7
615.2	13833.9	1.8	-4.1
603.6	14337.7	.2	-5.2
579.9	15391.3	-1.4	-8.1
570.8	15805.5	-2.2	-8.5
545.1	17003.0	-5.4	-9.3
528.5	17800.8	-6.1	-14.3
520.1	18213.1	-6.6	-13.3
512.1	18611.3	-7.0	-19.2
500.0	19223.4	-8.3	-19.7
492.2	19624.1	-9.3	-21.3
487.7	19857.8	-9.3	-21.6
471.7	20702.8	-11.6	-19.4
448.1	21990.4	-14.4	-23.7
429.9	23020.2	-16.8	-22.7
421.7	23495.4	-17.7	-24.9
400.0	24787.7	-21.3	-27.0
395.8	25043.8	-21.7	-26.0
388.3	25508.8	-20.7	-22.7
347.0	28216.5	-26.4	-29.9
340.0	28700.5	-27.4	-31.3
313.8	30584.0	-31.9	-36.9
300.0	31624.3	-34.8	-39.8
276.4	33489.1	-39.6	-40.2
250.0	35721.9	-45.6	
200.0	40497.9	-57.1	
180.5	41615.3	-59.9	
170.5	43787.4	-60.5	

STATION ALTITUDE 3489.00 FEET MSL
24 SEP. 83 1544 MDT
ASCENSION NO. 463

SIGNIFICANT LEVEL DATA
2710020463
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 4 Cont'd

PRESSURE	GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
150.0	46390.6	-64.9		
144.3	47166.0	-66.5		
136.0	48350.3	-66.1		
124.0	50179.7	-70.2		
120.2	50788.6	-71.1		
109.0	52702.4	-70.2		
105.4	53361.9	-69.7		
100.0	54391.7	-71.4		
95.4	55307.9	-72.3		
85.4	57494.2	-65.5		
76.1	59810.9	-64.1		
70.0	61514.6	-62.0		
63.6	63489.5	-58.4		
50.0	68511.9	-56.4		
41.8	72304.8	-52.4		
30.2	73672.5	-54.0		
30.0	79362.8	-53.0		

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LONG DEG

UPPER AIR DATA
2710020463
WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL
28 SEP. 83
ASCENSION NO. 403

TABLE 5

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE				DIRECTION DEGREES (TN)	SPEED KNOTS	
3989.0	879.3	22.5	15.4	64.0	1028.3	672.4	280.0	20.0	1.000305
4000.0	879.0	22.4	15.3	64.3	1028.3	672.2	280.1	20.0	1.000305
4500.0	863.6	19.3	13.7	69.9	1021.7	668.5	284.2	20.7	1.000297
5000.0	840.5	18.9	12.3	65.7	1005.6	667.9	288.1	21.6	1.000288
5500.0	833.6	18.4	12.2	64.9	987.8	668.0	291.7	22.5	1.000283
6000.0	819.0	18.4	11.6	64.4	972.4	667.3	293.6	21.3	1.000278
6500.0	804.6	17.9	11.0	64.1	957.2	666.7	292.1	15.5	1.000272
7000.0	790.4	16.7	10.5	67.0	944.3	665.2	289.0	10.5	1.000268
7500.0	776.4	15.4	10.0	69.9	931.6	663.8	282.2	6.8	1.000264
8000.0	762.6	14.4	9.4	71.6	918.4	662.6	282.1	3.8	1.000259
8500.0	749.0	13.1	9.0	79.1	905.9	661.2	228.3	3.5	1.000257
9000.0	735.6	11.9	8.1	82.8	893.5	659.7	208.4	4.3	1.000253
9500.0	722.4	10.8	7.5	79.6	881.3	658.3	213.5	5.2	1.000245
10000.0	709.3	9.7	5.8	76.4	869.2	656.9	218.6	0.2	1.000237
10500.0	696.4	8.6	4.7	76.7	857.1	655.4	224.3	0.2	1.000232
11000.0	683.6	7.5	3.5	75.6	844.9	654.1	225.9	8.1	1.000226
11500.0	671.1	6.4	2.2	74.5	832.9	652.7	221.6	8.8	1.000220
12000.0	658.7	5.3	0.9	73.3	821.1	651.3	218.3	0.4	1.000215
12500.0	646.7	4.2	-0.4	72.2	809.4	649.9	216.2	0.7	1.000210
13000.0	634.8	3.1	-1.6	71.1	797.9	648.5	214.2	9.1	1.000205
13500.0	623.0	2.3	-3.1	67.5	785.5	647.5	212.4	8.5	1.000199
14000.0	611.4	1.3	-4.4	65.7	774.0	646.2	209.1	7.3	1.000195
14500.0	599.9	-0.0	-5.6	65.9	763.3	644.6	197.2	6.8	1.000190
15000.0	588.6	-0.8	-7.0	62.6	751.1	643.7	184.5	6.8	1.000186
15500.0	577.5	-1.6	-8.2	60.5	739.3	642.7	176.9	8.1	1.000182
16000.0	566.5	-2.7	-0.6	63.9	728.3	641.3	173.1	9.7	1.000179
16500.0	555.8	-4.1	-8.9	60.0	717.9	639.7	160.2	11.7	1.000176
17000.0	545.2	-5.4	-0.3	74.0	707.8	638.1	185.2	13.9	1.000174
17500.0	534.7	-5.8	-12.3	60.3	695.6	637.5	197.5	17.1	1.000178
18000.0	524.4	-6.5	-13.8	55.4	683.7	636.6	205.6	20.8	1.000174
18500.0	514.3	-6.9	-17.3	43.2	672.1	636.1	210.5	23.5	1.000170
19000.0	504.4	-7.8	-10.5	38.3	661.6	634.9	214.1	26.3	1.000169
19500.0	494.6	-9.0	-20.8	37.6	651.7	633.5	213.8	28.0	1.000161
20000.0	485.0	-9.7	-21.1	38.7	640.7	632.6	217.1	29.5	1.000149
20500.0	475.5	-11.0	-19.8	48.2	631.3	631.0	217.6	31.1	1.000148
21000.0	466.1	-12.2	-20.4	50.6	621.6	630.6	216.7	32.6	1.000145
21500.0	456.9	-13.5	-22.1	47.7	612.4	630.2	216.2	33.7	1.000142
22000.0	447.9	-14.4	-23.7	45.1	602.7	629.9	215.4	34.2	1.000139
22500.0	439.0	-15.6	-23.1	52.4	593.5	629.5	214.7	34.7	1.000136
23000.0	430.2	-16.8	-22.7	59.7	584.1	629.1	214.5	34.0	1.000135

STATION ALTITUDE 3989.00 Feet MSL
 28 SEP. 83 1544 MDT
 ASCENSION NO. 463

UPPER AIR DATA
 2710020463
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

TABLE 5 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
23500.0	421.6	-17.7	-24.9	53.0	574.6	622.9	214.5	33.1	1.000133
24000.0	413.1	-19.1	-25.7	55.7	566.1	521.2	215.0	32.1	1.000130
24500.0	404.7	-20.5	-26.5	58.4	557.7	619.4	217.5	30.6	1.000120
25000.0	396.5	-21.6	-26.1	66.6	548.8	618.1	220.1	29.2	1.000127
25500.0	388.4	-20.7	-22.7	83.7	535.6	619.3	225.4	28.5	1.000125
26000.0	380.5	-21.7	-24.0	81.8	526.7	618.0	231.4	28.4	1.000123
26500.0	372.6	-22.8	-25.3	79.6	518.1	616.7	235.9	28.2	1.000120
27000.0	365.0	-23.8	-26.7	77.4	509.6	615.3	237.1	27.5	1.000118
27500.0	357.5	-24.9	-28.0	75.2	501.3	614.0	238.3	26.8	1.000115
28000.0	350.1	-25.9	-29.3	73.0	493.1	612.7	237.9	25.1	1.000113
28500.0	342.9	-27.0	-30.7	70.2	485.0	611.4	236.7	23.2	1.000111
29000.0	335.7	-28.1	-32.2	67.7	477.0	610.0	235.7	21.7	1.000109
29500.0	328.6	-29.3	-33.7	65.6	469.3	608.5	235.6	21.8	1.000107
30000.0	321.7	-30.5	-35.1	63.5	461.7	607.0	235.5	21.8	1.000105
30500.0	314.9	-31.7	-36.6	61.4	454.2	605.4	233.8	21.9	1.000103
31000.0	308.2	-33.1	-38.0	60.6	447.1	603.7	231.8	22.0	1.000101
31500.0	301.6	-34.5	-39.4	60.1	440.1	602.0	230.1	22.8	1.000099
32000.0	295.1	-35.8	-41.4	55.8	433.0	600.3	229.9	25.6	1.000097
32500.0	288.7	-37.1	-43.6	50.1	425.9	598.7	229.7	28.5	1.000096
33000.0	282.4	-38.3	-45.9	44.5	418.9	597.0	230.1	33.8	1.000094
33500.0	276.5	-39.6	-48.5	38.8**	412.1	595.4	230.6	40.3	1.000092
34000.0	270.1	-41.0	-51.7	30.1**	405.3	593.6	230.8	44.5	1.000091
34500.0	264.1	-42.5	-55.7	21.3**	398.6	591.9	230.9	45.9	1.000089
35000.0	258.2	-43.7	-60.9	12.6**	392.0	590.2	231.6	46.3	1.000087
35500.0	252.5	-45.0	-70.5	3.9**	385.6	588.4	233.8	44.7	1.000086
36000.0	246.8	-46.5			378.9	586.8	235.9	43.3	1.000084
36500.0	241.1	-47.5			372.1	585.2	236.4	44.2	1.000083
37000.0	235.5	-48.7			365.5	583.7	236.8	45.1	1.000081
37500.0	230.1	-49.9			359.0	582.1	236.5	46.1	1.000080
38000.0	224.8	-51.1			352.6	580.5	235.9	47.3	1.000079
38500.0	219.6	-52.3			346.3	579.0	236.1	48.0	1.000077
39000.0	214.5	-53.5			340.2	577.4	236.2	47.5	1.000076
39500.0	209.5	-54.7			334.2	575.8	240.3	47.2	1.000074
40000.0	204.7	-55.9			328.3	574.2	242.4	47.7	1.000073
40500.0	200.0	-57.1			322.5	572.6	244.3	48.5	1.000072
41000.0	195.2	-58.4			316.6	571.0	246.2	49.2	1.000071
41500.0	190.6	-59.6			310.9	569.3	248.1	49.4	1.000069
42000.0	186.0	-60.9			304.0	568.8	249.6	48.9	1.000068
42500.0	181.5	-60.1			296.9	568.6	249.1	53.4	1.000066
43000.0	177.2	-60.5			289.9	568.4	248.7	56.8	1.000065

** AT LAST OF ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3989.00 FEET MSL
28 SEP. 83
ASCENSION NO. 463

UPPER AIR DATA
2710020403
WHITE SANDS

GEODETTIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 5 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
43500.0	172.9	-60.4		283.1	568.2	248.0	57.7	1.000063
44000.0	168.7	-60.9		276.9	567.6	247.2	58.4	1.000062
44500.0	164.6	-61.7		271.2	566.5	246.2	57.4	1.000060
45000.0	160.6	-62.5		265.7	565.4	244.9	54.3	1.000059
45500.0	156.7	-63.4		260.3	564.2	243.4	51.2	1.000058
46000.0	152.9	-64.2		255.0	563.1	240.6	48.1	1.000057
46500.0	149.2	-65.1		249.8	561.9	237.3	45.2	1.000056
47000.0	145.5	-66.2		244.9	560.5	235.1	42.1	1.000055
47500.0	141.9	-66.4		239.1	560.2	236.2	38.5	1.000053
48000.0	138.4	-66.2		233.0	560.4	237.4	34.9	1.000052
48500.0	135.0	-66.4		227.5	560.1	237.1	33.2	1.000051
49000.0	131.6	-67.6		223.0	558.6	236.4	32.0	1.000050
49500.0	128.3	-68.7		218.6	557.1	233.0	30.5	1.000049
50000.0	125.1	-69.8		214.4	555.5	224.4	28.8	1.000048
50500.0	122.0	-70.7		209.9	554.3	215.4	27.8	1.000047
51000.0	118.9	-71.0		204.9	553.9	213.4	23.7	1.000046
51500.0	115.9	-70.8		199.5	554.2	211.4	21.7	1.000044
52000.0	113.0	-70.5		194.3	554.5	212.8	21.6	1.000043
52500.0	110.1	-70.3		189.1	554.9	215.2	25.8	1.000042
53000.0	107.4	-70.0		184.1	555.3	216.0	26.2	1.000041
53500.0	104.7	-69.9		179.4	555.4	214.8	26.5	1.000040
54000.0	102.0	-70.8		175.6	554.2	213.6	26.9	1.000039
54500.0	99.4	-71.5		171.8	553.2	211.6	25.8	1.000038
55000.0	96.9	-72.0		167.9	552.5	209.4	24.7	1.000037
55500.0	94.5	-71.7		163.4	552.9	208.5	24.6	1.000036
56000.0	92.1	-70.1		158.1	555.1	208.1	24.7	1.000035
56500.0	89.8	-68.6		152.9	557.2	205.3	23.9	1.000034
57000.0	87.6	-67.0		148.0	559.3	199.7	22.3	1.000033
57500.0	85.4	-65.5		143.2	561.4	196.3	20.9	1.000032
58000.0	83.3	-65.2		139.5	561.8	200.2	19.7	1.000031
58500.0	81.2	-64.9		135.9	562.2	204.6	18.6	1.000030
59000.0	79.2	-64.6		132.4	562.6	212.4	17.1	1.000029
59500.0	77.3	-64.3		128.9	563.0	221.5	16.0	1.000029
60000.0	75.4	-63.9		125.5	563.6	224.8	13.9	1.000028
60500.0	73.6	-63.3		122.1	564.4	225.1	11.3	1.000027
61000.0	71.8	-62.6		118.8	565.2	226.4	9.3	1.000026
61500.0	70.1	-62.0		115.6	566.1	231.4	9.0	1.000026
62000.0	68.4	-61.1		112.3	567.3	235.8	10.6	1.000025
62500.0	66.7	-60.2		109.2	568.5	242.2	10.8	1.000024
63000.0	65.1	-59.3		106.1	569.7	249.8	10.9	1.000024

STATION ALTITUDE 3949.00 FFET MSL
 28 SEP. 83
 ASCENSION NO. 463

UPPER AIR DATA
 2710020463
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

TABLE 5 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (TN) DEGREES	SPEED KNOTS	INDEX OF REFRACTION
63500.0	63.6	-58.4		103.1	570.9	256.7	11.1	1.000023
64000.0	62.1	-58.2		100.6	571.2	260.1	10.9	1.000022
64500.0	60.6	-58.0		98.1	571.4	263.7	10.7	1.000022
65000.0	59.2	-57.8		95.7	571.7	264.0	10.4	1.000021
65500.0	57.8	-57.6		93.4	572.0	262.7	9.9	1.000021
66000.0	56.4	-57.4		91.1	572.2	260.7	9.0	1.000020
66500.0	55.1	-57.2		88.8	572.5	256.3	7.1	1.000020
67000.0	53.8	-57.0		86.6	572.8	248.5	5.2	1.000019
67500.0	52.5	-56.8		84.5	573.0	218.4	4.7	1.000019
68000.0	51.2	-56.6		82.4	573.3	189.2	5.8	1.000018
68500.0	50.0	-56.4		80.4	573.5	181.4	7.4	1.000018
69000.0	48.9	-55.9		78.3	574.2	189.9	8.5	1.000017
69500.0	47.7	-55.4		76.3	574.9	196.3	9.8	1.000017
70000.0	46.6	-54.8		74.4	575.6	190.9	7.1	1.000017
70500.0	45.5	-54.3		72.5	576.3	175.0	4.1	1.000016
71000.0	44.5	-53.8		70.6	577.0	131.9	2.9	1.000016
72000.0	42.4	-52.7		68.8	577.7	98.3	4.1	1.000015
72500.0	41.4	-52.6		67.0	578.4	82.8	6.0	1.000015
73000.0	40.5	-53.2		65.4	578.5	80.8	6.4	1.000015
73500.0	39.5	-53.2		64.1	577.8	79.3	6.8	1.000014
74000.0	38.6	-53.8		62.8	577.0	73.4	7.8	1.000014
74500.0	37.7	-53.9		61.3	576.8	65.5	9.6	1.000014
75000.0	36.8	-53.8		59.9	576.9	60.3	11.6	1.000013
75500.0	36.0	-53.7		58.5	577.0	64.7	10.6	1.000013
76000.0	35.1	-53.6		57.1	577.1	70.1	9.6	1.000013
76500.0	34.3	-53.5		55.8	577.3	76.4	9.6	1.000012
77000.0	33.5	-53.4		54.4	577.4	81.8	11.2	1.000012
77500.0	32.7	-53.3		53.1	577.5	85.8	12.8	1.000012
78000.0	32.0	-53.2		51.9	577.6			1.000012
78500.0	31.2	-53.2		50.7	577.7			1.000011
79000.0	30.5	-53.1		49.5	577.8			1.000011
				48.3	578.0			1.000011

STATION ALTITUDE 5989.00 FEET MSL
24 SEP. 83
ASCENSION NO. 463

MANDATORY LEVELS
2710020463
WHITE SANDS

GEODETTIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 6

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4947.	18.9	12.4	66.	287.7	21.5
800.0	6657.	17.5	10.8	65.	291.4	13.7
750.0	8457.	13.3	9.5	78.	231.1	3.5
700.0	10352.	8.9	5.1	77.	222.8	6.9
650.0	12353.	4.5	.0	73.	216.8	9.6
600.0	14478.	-.0	-5.6	66.	197.5	6.8
550.0	16750.	-4.8	-9.1	72.	183.0	12.9
500.0	19196.	-8.3	-19.7	39.	215.0	27.1
450.0	21851.	-14.2	-23.3	46.	215.6	34.1
400.0	24746.	-21.3	-27.0	60.	218.9	29.8
350.0	27960.	-26.0	-29.4	73.	237.9	25.1
300.0	31561.	-34.8	-39.8	60.	230.1	23.4
250.0	35643.	-45.6			234.7	44.0
200.0	40309.	-57.1			244.2	48.5
175.0	43141.	-60.4			248.4	57.3
150.0	46265.	-64.9			238.2	45.9
125.0	49878.	-69.8			224.4	28.8
100.0	54223.	-71.4			212.1	26.1
80.0	58614.	-64.7			208.7	17.7
70.0	61303.	-62.0			231.2	9.9
60.0	64469.	-57.9			264.8	10.7
50.0	68254.	-56.4			180.9	7.3
40.0	72951.	-53.5			78.7	7.0
30.0	79022.	-53.0				

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3947.10 FT MSL
 28 SEP. 83
 ASCENSION NO. 210

SIGNIFICANT LEVEL DATA
 2710060210
 S M H

GEODETIC COORDINATES
 32.48034 LAT DEG
 106.42307 LON DEG

TABLE 7

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
370.2	3097.3	22.8	15.4	63.0
877.1	4065.4	18.9	13.5	71.0
864.7	4468.5	19.5	13.4	68.0
860.8	4596.3	18.4	11.9	66.0
850.0	4752.5	18.2	11.5	65.0
828.1	5688.6	18.4	10.3	59.0
781.7	7304.0	14.6	7.2	61.0
763.9	7944.1	13.6	9.5	76.0
700.0	10340.7	8.7	5.1	78.0
671.5	11473.3	5.7	2.2	78.0
627.6	13283.2	2.4	-5.5	56.0
597.0	14604.1	-1.1	-6.2	58.0
588.9	14962.9	-1.0	-5.2	73.0
547.7	16852.2	-5.7	-5.8	92.0
520.2	18178.1	-7.4	-9.8	83.0
500.0	19190.6	-9.1	-11.6	82.0
492.2	19590.8	-9.5	-19.4	44.0
484.5	19991.2	-10.1	-22.0	37.0
468.7	20927.4	-13.1	-18.3	65.0
467.9	20970.2	-13.2	-10.2	78.0
454.4	21605.2	-12.8	-13.2	97.0
400.0	24771.4	-18.9	-20.5	87.0
344.1	28132.6	-26.0	-29.2	74.0
328.5	29503.3	-29.9	-34.8	62.0
300.0	31608.6	-35.4	-40.5	59.0
291.6	32257.3	-37.3	-42.3	59.0
278.8	33274.0	-39.4	-40.9	44.0
250.0	35701.6	-45.3		
236.4	36922.6	-48.5		
200.0	40471.0	-58.0		
186.2	41946.1	-60.8		
168.0	44052.3	-61.3		
150.0	46348.3	-65.4		
142.9	47314.4	-68.3		
138.7	47907.1	-66.6		
123.0	50277.9	-71.1		
115.6	51092.4	-70.0		
105.0	53302.3	-69.6		
100.0	54337.8	-71.4		
82.3	58183.0	-66.5		

ALTITUDE 3997.30 FEET MSL
 28 SEP. 63
 ASCENSION NO. 210

SIGNIFICANT LEVEL DATA
 2710060210
 S M H

GEODETIC COORDINATES
 32.48034 LAT DEG
 106.42307 LONG DEG

TABLE 7 Cont'd

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
76.1 59752.9	-65.2	
70.0 61451.8	-60.6	
61.5 64120.8	-59.4	
50.0 68426.4	-57.0	
40.8 72713.4	-53.7	
38.7 73831.8	-55.4	
33.6 76824.8	-53.5	

STATION ALTITUDE 3997.30 FEET MSL
28 SEP. 83 1544 MDT
ASCENSION NO. 210

UPPER AIR DATA
2710060210
S M H

GEODETIC COORDINATES
32.48034 LAT DEG
106.42307 LON DEG

TABLE 8

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (IN) SPEED KNOTS	INDEX OF REFRACTION
3997.3	879.2	22.8	15.4	63.0	1027.1	672.7	335.0	1.000305
4000.0	879.1	22.6	15.3	63.3	1027.6	672.6	334.9	1.000305
4500.0	863.7	19.2	13.1	67.5	1022.3	668.4	317.1	1.000295
5000.0	848.6	18.2	11.4	64.6	1008.5	667.0	302.6	1.000285
5500.0	833.7	18.3	10.6	60.5	990.5	667.1	291.9	1.000278
6000.0	818.9	17.7	9.7	59.4	975.6	666.2	286.4	1.000271
6500.0	804.5	16.5	8.7	60.0	962.4	664.8	287.1	1.000265
7000.0	790.2	15.3	7.8	60.6	949.5	663.3	288.2	1.000260
7500.0	776.2	14.3	7.9	65.6	935.8	662.2	289.5	1.000258
8000.0	762.3	13.5	9.4	76.0	921.1	661.5	105.7	1.000260
8500.0	748.6	12.5	8.4	76.5	908.0	660.2	109.4	1.000254
9000.0	735.1	11.4	7.5	76.9	895.0	659.0	111.6	1.000248
9500.0	721.9	10.4	6.6	77.3	882.3	657.7	120.5	1.000243
10000.0	708.9	9.4	5.7	77.7	869.7	656.5	131.1	1.000237
10500.0	696.1	8.3	4.7	78.0	857.6	655.1	146.5	1.000232
11000.0	683.3	7.0	3.4	78.0	846.2	653.4	158.1	1.000226
11500.0	670.8	5.7	2.1	77.7	834.9	651.8	160.1	1.000221
12000.0	658.4	4.7	1.1	71.6	822.5	650.6	161.2	1.000213
12500.0	646.2	3.8	-2.0	65.5	810.3	649.4	161.6	1.000207
13000.0	634.3	2.9	-4.2	59.4	798.2	648.2	161.9	1.000200
13500.0	622.5	1.8	-5.5	58.0	786.7	646.8	166.7	1.000196
14000.0	610.8	0.5	-5.8	62.5	775.7	645.2	172.8	1.000193
14500.0	599.4	-0.8	-6.2	67.1	764.8	643.7	180.5	1.000190
15000.0	588.1	-1.1	-5.2	73.5	751.0	643.4	184.5	1.000189
15500.0	576.9	-2.3	-5.2	80.4	740.1	642.0	186.4	1.000186
16000.0	565.4	-3.6	-5.4	87.3	729.3	640.5	187.8	1.000184
16500.0	555.2	-4.8	-5.6	94.2	718.8	639.0	192.9	1.000181
17000.0	544.6	-5.9	-6.3	97.2	707.9	637.7	198.8	1.000178
17500.0	534.1	-6.5	-7.7	91.2	696.2	636.9	208.0	1.000173
18000.0	523.8	-7.2	-9.2	85.1	684.6	636.1	215.5	1.000169
18500.0	513.7	-7.4	-10.4	82.7	673.4	635.1	217.2	1.000165
19000.0	503.7	-8.8	-11.3	82.2	662.5	634.0	218.7	1.000162
19500.0	494.0	-9.4	-17.3	52.6	651.7	633.1	220.3	1.000154
20000.0	484.3	-10.1	-21.9	37.3	641.0	632.1	221.3	1.000149
20500.0	474.8	-11.9	-19.3	54.0	632.6	630.0	221.8	1.000148
21000.0	465.5	-13.1	-15.6	81.4	622.7	628.7	219.4	1.000149
21500.0	456.3	-12.9	-13.6	94.3	609.8	629.1	218.9	1.000148
22000.0	447.2	-13.6	-14.1	95.8	599.1	628.2	226.4	1.000145
22500.0	438.3	-14.5	-15.2	94.2	589.5	627.0	237.6	1.000142
23000.0	429.6	-15.5	-16.4	92.6	579.9	625.8	240.2	1.000139

STATION ALTITUDE 3497.30 FEET MSL
24 SEP. 83
ASCENSION NO. 210

UPPER AIR DATA
2710060210
S M K

GEODETIC COORDINATES
32.48034 LAT DEG
106.42307 LON DEG

TABLE 8 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (IN) SPEED KNOTS	INDEX OF REFRACTION
23500.0	421.0	-16.5	91.0	570.6	624.6	242.5	1.000136
24000.0	412.6	-17.4	89.4	561.4	623.4	244.0	1.000133
24500.0	404.4	-18.4	87.9	552.3	622.2	245.7	1.000130
25000.0	396.2	-19.4	86.1	543.4	620.9	243.1	1.000128
25500.0	388.1	-20.4	84.2	534.5	619.6	239.5	1.000125
26000.0	380.2	-21.5	82.2	525.8	618.3	235.0	1.000123
26500.0	372.0	-22.6	80.3	517.3	617.0	229.5	1.000120
27000.0	364.8	-23.6	78.4	508.9	615.6	226.0	1.000118
27500.0	357.5	-24.7	76.4	500.6	614.3	225.4	1.000115
28000.0	350.0	-25.7	74.5	492.5	613.0	226.9	1.000113
28500.0	342.7	-27.0	70.8	484.9	611.3	229.2	1.000111
29000.0	335.6	-28.5	66.4	477.6	609.5	230.6	1.000109
29500.0	328.5	-29.9	62.0	470.3	607.7	231.3	1.000107
30000.0	321.5	-31.2	61.3	462.8	606.1	230.7	1.000105
30500.0	314.7	-32.5	60.6	455.4	604.4	229.9	1.000103
31000.0	308.0	-33.8	59.9	448.2	602.8	230.0	1.000101
31500.0	301.4	-35.1	59.2	441.0	601.1	230.4	1.000099
32000.0	294.9	-36.5	58.4	434.1	599.3	231.7	1.000098
32500.0	288.5	-37.8	55.4	427.0	597.7	232.7	1.000096
33000.0	282.2	-38.8	48.0	419.5	596.4	233.5	1.000094
33500.0	276.0	-39.9	39.9**	412.2	595.0	234.2	1.000092
34000.0	269.9	-41.2	30.8**	405.2	593.4	234.7	1.000091
34500.0	263.4	-42.4	21.8**	398.3	591.8	235.3	1.000089
35000.0	258.0	-43.6	12.7**	391.5	590.3	235.8	1.000087
35500.0	252.5	-44.8	3.7**	384.9	588.7	236.3	1.000086
36000.0	246.6	-46.1		378.3	587.0	236.7	1.000084
36500.0	241.0	-47.4		371.9	585.4	236.0	1.000083
37000.0	235.5	-48.7		365.6	583.6	235.2	1.000081
37500.0	230.1	-50.0		359.2	581.9	234.1	1.000080
38000.0	224.7	-51.4		353.0	580.2	235.9	1.000079
38500.0	219.5	-52.7		346.8	578.4	239.0	1.000077
39000.0	214.4	-54.1		340.8	576.6	243.4	1.000076
39500.0	209.4	-55.4		334.9	574.9	247.2	1.000075
40000.0	204.5	-56.7		329.2	573.1	248.7	1.000073
40500.0	199.7	-58.1		323.5	571.4	249.4	1.000072
41000.0	194.9	-59.0		317.1	570.1	248.8	1.000071
41500.0	190.3	-60.0		310.9	568.8	248.7	1.000069
42000.0	185.7	-60.8		304.7	567.7	248.9	1.000068
42500.0	181.2	-60.9		297.5	567.5	250.6	1.000066
43000.0	176.9	-61.1		290.5	567.4	251.3	1.000065

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3997.30 FEET MSL
28 SEP. 83 1544 MDT
ASCENSION NO. 210

UPPER AIR DATA
2710060210
S M K

GEODETIC COORDINATES
32-48034 LAT DEG
106-42307 LON DEG

TABLE 8 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CM ³	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	INDEX OF REFRACTION
43500.0	172.6	-61.2	283.6	567.2	251.0	63.0	1.000063
44000.0	160.4	-61.3	276.9	567.1	250.0	62.1	1.000062
44500.0	164.3	-62.1	271.2	566.0	248.9	61.0	1.000060
45000.0	160.3	-63.0	265.8	564.8	247.2	57.7	1.000059
45500.0	156.4	-63.9	260.4	563.6	245.0	54.7	1.000058
46000.0	152.6	-64.8	255.1	562.4	240.6	53.3	1.000057
46500.0	148.9	-65.9	250.2	560.9	236.8	53.2	1.000056
47000.0	145.2	-67.4	245.7	558.9	235.8	56.0	1.000055
47500.0	141.6	-67.8	240.1	558.3	235.4	55.7	1.000053
48000.0	138.0	-66.8	233.0	559.7	235.6	51.9	1.000052
48500.0	134.6	-67.7	228.2	558.4	234.5	43.8	1.000051
49000.0	131.2	-68.7	223.6	557.1	232.0	33.9	1.000050
49500.0	127.9	-69.6	219.0	555.8	225.2	28.0	1.000049
50000.0	124.7	-70.6	214.5	554.5	216.2	26.7	1.000048
50500.0	121.0	-70.9	209.5	554.0	210.0	29.2	1.000047
51000.0	116.5	-70.4	203.7	554.7	211.5	30.2	1.000045
51500.0	113.6	-70.0	198.2	555.3	214.4	30.7	1.000044
52000.0	112.7	-69.9	193.1	555.4	214.7	29.4	1.000043
52500.0	109.8	-69.8	188.1	555.6	211.0	26.0	1.000042
53000.0	107.1	-69.7	183.3	555.7	209.1	24.2	1.000041
53500.0	104.4	-69.8	178.8	555.5	208.1	23.3	1.000040
54000.0	101.7	-70.8	175.1	554.2	211.2	25.7	1.000039
54500.0	99.2	-71.2	171.1	553.6	212.4	26.7	1.000038
55000.0	96.7	-70.6	166.3	554.5	211.8	25.7	1.000037
55500.0	94.3	-69.9	161.6	555.4	210.6	24.0	1.000036
56000.0	91.9	-69.3	157.1	556.3	208.8	22.0	1.000035
56500.0	89.0	-68.6	152.7	557.1	206.8	20.3	1.000034
57000.0	87.4	-68.0	148.4	558.0	204.9	19.2	1.000033
57500.0	85.7	-67.4	144.2	558.9	203.6	18.8	1.000032
58000.0	83.1	-66.7	140.2	559.7	205.0	18.2	1.000031
58500.0	81.0	-66.2	136.4	560.4	208.1	17.1	1.000030
59000.0	79.0	-65.8	132.8	560.9	216.1	15.0	1.000030
59500.0	77.1	-65.4	129.2	561.5	228.6	13.7	1.000029
60000.0	75.2	-64.5	125.5	562.7	244.2	13.4	1.000028
60500.0	73.4	-63.2	121.7	564.5	252.0	14.2	1.000027
61000.0	71.6	-61.8	118.0	566.3	250.3	15.0	1.000026
61500.0	69.8	-60.6	114.4	568.0	250.7	13.6	1.000025
62000.0	68.2	-60.4	111.6	568.3	242.3	12.3	1.000025
62500.0	66.5	-60.1	108.8	568.6	229.4	11.2	1.000024
63000.0	64.4	-59.9	106.1	568.9	223.9	10.7	1.000024

STATION ALTITUDE 3997.30 FTET MSL
 2M SEP. 63
 ASCENSION NO. 210

UPPER AIR DATA
 2710060210
 S M K

GEODETIC COORDINATES
 32.41034 LAT DEG
 106.42307 LON DEG

TABLE 8 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE				DIRECTION DEGREES (TN)	SPEED KNOTS	
63500.0	65.4	-59.7			103.4	569.2	223.5	10.3	1.000023
64000.0	61.9	-59.5			100.8	569.5	237.0	9.4	1.000022
64500.0	60.4	-59.2			98.3	569.9	253.5	9.3	1.000022
65000.0	59.0	-58.9			95.9	570.2	259.0	9.5	1.000021
65500.0	57.6	-58.6			93.5	570.6	265.2	9.1	1.000021
66000.0	56.2	-58.4			91.1	571.0	278.0	6.9	1.000020
66500.0	54.9	-58.1			88.8	571.3	296.0	4.6	1.000020
67000.0	53.5	-57.8			86.6	571.7	340.0	2.4	1.000019
67500.0	52.3	-57.5			84.5	572.1	316.3	.5	1.000019
68000.0	51.0	-57.2			82.3	572.4	286.7	3.0	1.000018
68500.0	49.8	-56.9			80.3	572.8	207.7	3.9	1.000018
69000.0	48.7	-56.6			78.3	573.3	209.9	4.2	1.000017
69500.0	47.5	-56.2			76.3	573.9	194.7	5.3	1.000017
70000.0	46.4	-55.8			74.4	574.4	184.8	6.6	1.000017
70500.0	45.3	-55.4			72.5	574.9	194.9	8.8	1.000016
71000.0	44.3	-55.0			70.7	575.4	259.9	1.3	1.000016
71500.0	43.2	-54.6			68.9	575.9	25.1	4.0	1.000015
72000.0	42.2	-54.2			67.2	576.4	36.0	8.0	1.000015
72500.0	41.2	-53.9			65.5	576.9	77.7	8.7	1.000015
73000.0	40.3	-54.1			64.0	576.5	102.4	11.3	1.000014
73500.0	39.3	-54.9			62.7	575.5	116.6	13.7	1.000014
74000.0	38.4	-55.3			61.4	575.0	120.6	14.4	1.000014
74500.0	37.5	-55.0			59.9	575.4	105.3	11.4	1.000013
75000.0	36.6	-54.7			58.4	575.9	88.0	10.0	1.000013
75500.0	35.8	-54.3			56.9	576.3	77.1	9.7	1.000013
76000.0	34.9	-54.0			55.5	576.7			1.000012
76500.0	34.1	-53.7			54.2	577.1			1.000012

STATION ALTITUDE 3997.30 FEET MSL
28 SEP. 83 1544 MDT
ASCENSION NO. 210

MANDATORY LEVELS
2710060210
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GEODETIC COORDINATES
32.48034 LAT DEG
106.42307 LON DEG

TABLE 9

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
		AIR DEGREES	DEWPOINT CENTIGRADE		DIRECTION DEGREES (TN)	SPEED KNOTS
850.0	4949.	18.2	11.5	65.	303.9	19.2
800.0	6653.	16.1	8.4	60.	287.4	14.5
750.0	8445.	12.6	8.5	76.	109.1	3.4
700.0	10337.	8.7	5.1	78.	141.9	4.7
650.0	12334.	4.1	-1.4	67.	161.5	7.7
600.0	14455.	-7	-6.1	67.	180.1	12.2
550.0	16722.	-5.4	-5.8	97.	195.8	22.3
500.0	19164.	-9.1	-11.6	82.	219.3	32.6
450.0	21816.	-13.3	-13.7	96.	223.4	35.3
400.0	24730.	-18.9	-20.5	87.	244.4	20.4
350.0	27952.	-25.7	-28.9	75.	220.8	10.5
300.0	31545.	-35.4	-40.5	59.	230.7	25.5
250.0	35623.	-45.3			230.5	43.2
200.0	40373.	-58.0			249.5	49.2
175.0	43106.	-61.1			251.2	61.4
150.0	46223.	-65.4			237.6	52.6
125.0	49819.	-70.5			217.3	26.4
100.0	54170.	-71.4			212.7	27.0
80.0	58556.	-66.0			211.4	16.2
70.0	61241.	-60.6			251.7	13.8
60.0	64400.	-59.1			254.6	9.3
50.0	68169.	-57.0			207.2	3.8
40.0	72842.	-54.3			105.4	12.1

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

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